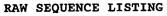
€ 2590 1071

#2 OIPE

RAW SEQUENCE LISTING DATE: 01/14/2002 PATENT APPLICATION: US/09/939,964 TIME: 18:38:07

Input Set : N:\Crf3\RULE60\09939964.raw
Output Set: N:\CRF3\01142002\I939964.raw

```
1 <110> APPLICANT: Rosenthal, Andre
        Freiberg, Christoph
3
        Perret, Xavier Philippe
        Broughton, William John
5 <120> TITLE OF INVENTION: Genomic Sequence of Rhizobium SP. NGR 234 Symbiotic
        Plasmid
7 <130> FILE REFERENCE: CARPOO68
8 <140> CURRENT APPLICATION NUMBER: US/09/939,964
9 <141> CURRENT FILING DATE: 2001-08-27
10 <150> PRIOR APPLICATION NUMBER: 09/214,808
11 <151> PRIOR FILING DATE: 1999-06-22
12 <160> NUMBER OF SEQ ID NOS: 1
13 <170> SOFTWARE: PatentIn Ver. 2.1
15 <210> SEQ ID NO: 1
16 <211> LENGTH: 536165
17 <212> TYPE: DNA
18 <213> ORGANISM: Rhizobium
19 <400> SEQUENCE: 1
         gatetegatt ggeagaaceg geaeegegeg ceagetaaet aegeeataga gegegageag 60
20
         gaagegegtg agtaegttge tgttggegge geegeegege gegeggateg eetegegege 120
21
         cttcaccata tgagccgcgt cgacggaatc accgatcatc ttgagcgcga agtaagactt 180
22
         cacgcttgcg ctcatatcga agggcccgtc atgcaccagc ggccagccgc cgtgcgccc 240
23
         ttgagtgcgg cgcagataat ttccgatttt ggcttcgagc acgacgtcaa tgggctcggc 300
24
         caggtaatga cgtagcagga tgtattcgga agggatggtg gaatccgctt caagctcgaa 360
25
         cgcccaatgg ccgtcggcat gacgataagc gagcagcgcc tcagtggctg aggcgatgct 420
26
         catttccagc gcggcgggat cgatggcagt gcgatttccg gaatgcttat tcactgactt 480
27
         cctgcgtgtt cggcagcgtg caaaaccgtc tggatttatc aatcaagtgt ttgtctctga 540
28
         aagagccaga tcggcggcac ggttacccga ccgcaccgat ccctcgatgg ttgccggcaa 600
29
         accegttgcg gtccagtcgc cagcaaggaa caggtttttg caaccegtca cgggccctgg 660
30
         acgtagcgcg ttctgctccg gggtggcctg gaatgtggcc cggcgctcac acacgatctg 720
31
         ccacggcggc agetegeetg agateceaec ggeetegeae aegtegegee agateaeteg 780
32
         cacgacctcc tcacgcggaa tgtcaagcag gcggtcgcca ttgctaatgg tgactgaaag 840
33
         cegetgegga taggegaaca gecaeteeac gageeegeeg accaegeeca ggateggate 900
34
         cgcaccgact ggcggatcga agcgaaaatg ggcattaacg acggcgcgga attcggtcgg 960
35
         ggttttcagg ccgggcagga gcgtcgcggc cgcccgtggc ggcacggcga ggatcacggc 1020
36
         gtcgtcgggg ccgaccgcta tcttgtcgtc accgaaatca agttcgctga tgatctcggc 1080
37
         cgatttggca agcttgcgca gtttatggct gaggcggacg gtggcgcccc gcctctccag 1140
38
         gagettgace geeggetega eeagaaegge geteagteeg tegegegega etageggaeg 1200
39
         gcaagceteg eegeeegega geagegttte eegtaegatg geaeeggeaa geeetgeega 1260
40
         geeeteegge ggategeaat teagggegge gageageage ggeegeacea gaegeeggta 1320
41
         cagegtacca ttgcagggta tagtgtttcc gaccagttca tccgcgccgg cccataggat 1380
42
         43
         cacccaggte ggaageetge egeegeegag ategacetge eagegetgta eggtggagat 1500
44
         gtcgacgaag ggaaacttgg cactcgtcgg accgacaaga ccggattccg ttccgatcgc 1560
45
         acgggcgtag ttgcgcacat attggttgcc cgatagaacc agatggttgc cgttgtcgat 1620
46
         ggtgagattg gttgcggaat cgaaaaagga gcggcatcga ccgccggcct gttgcgtcgc 1680
47
         ttcatagaca tgcaccggca aacctgcatt gctcaactgc acggccgcgg aaaggccgga 1740
48
```



PATENT APPLICATION: US/09/939,964

DATE: 01/14/2002 TIME: 18:38:07

Input Set : N:\Crf3\RULE60\09939964.raw
Output Set: N:\CRF3\01142002\I939964.raw

40	anteces	aagataatat	assastttt	tagcatcaca	acatcaaggc	gtaacggaag	1800
49	gateeeggeg	actttatasa	attaattaa	cacaccatt	cccaaaaac	cgcaaaaccc	1860
50	agaatggcgc	gettegtgag	actogoccaca	taacatttaa	acatgatggt	gggggcgcgt	1920
51	citateagea	geaggttgea	attesteste	teateagett	caccaaaata	catcatcgcg	1980
52	actactetye	gegggeegea	acceatgace	aggaggttat	caacaataac	tttatgtggg	2040
53	cgttgggcca	geggegegea	etestesses	atttagagta	atatatagaa	cccacacaaa	2100
54	tegetgetgg	tgatacegge	gracegagg	ttaataaatt	gcacacagag	ccgacccagc	2160
55	ccagcatcct	egtetatgte	gegeaggatg	Liggigagii	geagegeacg	accgaggtga	2220
56	tgcgcaagtg	caatgccatc	etectegete	taggeegaaca	caegeaeega	catcetteee	2220
57	acggcgctgg	cgacacggtc	gcaatagaga	Lecaygging	ccattttggg	cgcgcggatg	2200
58	tcttgtagta	cgtccatttc	catgccgtcg	acaacggcta	ggaaateete	tcgcttcagc	2340
59	ccgaaggtcg	ttaccgaggc	gagatagtcc	tttagccgcg	geggeggtae	acattggtag	2400
60	agcgcgtcaa	tgtgatcgcg	ccattgctga	agtgcagcaa	ggcggtgctc	gcgcggttcg	2400
61	tcggagtcgg	cgatgtcgtc	gacctggcgg	cagaagctgt	agatetggaa	tatcgcctcg	2520
62	cgctgcaccg	gcgggagggt	acgcattccc	agatagaacg	agctgccaag	ggccgtagag	2580
63	cggtggttcg	cgtgggccgc	cgcctccgcc	ctcatacgtc	gacagtcgtc	ttgaatcgcg	2640
64	taccgcggcc	gaacgcacgg	cgcgcggctt	cgtttgccat	tgcgccgacg	ccatggagca	2700
65	gcagctcaag	cggcgacaga	tgcacgcgct	cccttagagg	atcgcgcatc	ttcagcatcg	2760
66	acacgatctt	atcggcaaaa	gacagtatga	cggagacctc	gaaccggagg	cgaaagtcct	2820
67	tcacctgcga	caccagcgct	ccgcccccgt	tgagcagcac	ctcggccttc	gctgcgagag	2880
68	agcgcaggca	ttgtagcatc	tgcaacgagg	attttgcggc	gcccagctct	tcgatggagg	2940
69	cgccgctggc	tgaaagcgca	tcgcgcggaa	tatagacgcg	attgagatta	aggaaatcct	3000
70	tgccgcaatc	ctgcaggtgg	ttacagacct	gcagtcccgc	gcacaacaca	tccgatgccg	3060
71	gccacgtcgc	ggcactttcg	ccgtggacgt	cgagcacaaa	toggoogaco	ggcatcgccg	3120
72	agtatcggca	ataatcgatc	acctcgtccc	agttctcgta	acgctgctta	gtcacgtcca	3180
73	ttcqqaaqqc	qqtgagcaga	tcgagtgcat	gacgcggcgg	catgccgcgt	cggtcaagcg	3240
74						tcggcttcca	
75	ggaggtcgag	gtacagaagc	ttctcgtctg	gcgcgagcgt	cgcgtgatcg	gcaatgtcat	3360
76	caaccataca	gacgaatcgg	tagaaggcaa	gaatcagcgc	teggtgeege	ggatggataa	3420
77	tccacgacgc	aacqqqqaaa	tttttctcqc	ggtgcattgc	gtccgacctg	gggccgctgc	3480
78	cgctcgtcat	ttagcaccat	catcaatttt	gcaggcgttg	gatgctgctg	aaatgcagtc	3540
79	agacccccaa	ataaatcgta	caatccacqa	aggtacggcg	gcggccaaag	acgttatcga	3600
80	ccaacacaca	tttttatccc	cgagaattat	ccgatgcgaa	tctqtttttc	gagtatactg	3660
81	atteatteta	acgaattett	tgctgaaagc	gtcggatgag	actatatccc	agtagctaaa	3720
82	accogetees	ctaccacaca	ttatgaatac	accacatccc	tgccatgcaa	acatatccca	3780
83	ccactcaatt	attacgcggt	catcttcttc	gtagatgaac	teeggagege	aaatcctctc	3840
84	caccaataaca	caatttaatc	gaaaaatctt	ttagattacc	gcgcgtccta	tcacggggcg	3900
85	ctacatagas	cagagggg	ttgcattttc	atagtacage	tcagccaaag	cgatcgcatc	3960
86						ttgaaatgct	
87						cagctgtcga	
	ttaaataaa	gaccuttget	accateggte	gatoccaaa	cataatgagg	cacaaagcgg	4140
88	Licyalayee	ttactataca	agastaagag	gateceedaa	ttoattoaat	cattacagat	4200
89	cgcacagcga	Lightgugeg	agcataagcg	etassagg	tagtagaga	cattgcaggt	4260
90	gatgtccacg	gegateacte	gatgeegett	tagagtatag	atazataaza	ttcaacgaaa	4200
91	gtcgcggagc	cccacgcagc	grggagaaac	Legegrateg	gedaeeggae	gggttgtggc	4320
92	cgtgttttt	graggaaacc	gegaetttgg	caaayetega	tattaataa	tcagttgcgc	4200
93	gcgcgacgcc	cttttcaggc	acggcaccgg	cccacgctag	Egttgctgaa	atacaaccgt	4440
94	gatccgagtg	gaaaagcggt	ccaccggaag	agctaaatca	gatgtattt	tcaccagagt	4500
95	ttcacatagt	ctcgctttat	tgaaatccat	ttttcaatg	acataaatct	atacggtaga	4000
96	ttcacagccg	agtatgcttc	agccacaggc	ggttctgcag	tcagaacgtc	gcggttctca	4620
97	atttgaggag	ttatcagtga	tgtttaagac	agaacgaggc	tgcgatcgtg	aaggaatgga	4680

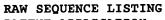


PATENT APPLICATION: US/09/939,964

DATE: 01/14/2002 TIME: 18:38:07

Input Set : N:\Crf3\RULE60\09939964.raw
Output Set: N:\CRF3\01142002\1939964.raw

tgagcgtttt ttcgagtgcg gtgtcgcgcg agaccggtgc gccactggca gacagtgtag 4740 98 gtcatcgctg ctccggtcaa tgtcacggcg aagaccggca cttgtcctgg ggccggcggc 4800 99 qcctatccac tqqqaacaac ggcggtcgag cgggcctgtt tctacctgcc aatgcgagcc 4860 100 tgatcacccg taccggcgct gtagtcggct ccgagtgcag cgttcaggca ggcggtatat 4920 101 tttcacggcc ccccgtccgc cgtcgattac gatgctgcat cttcaggcgg cacaaatctt 4980 102 gcgccgacga accgcgaact cgtcgacgcc gttgatgagc gggtaggggt gatcgcggaa 5040 103 gagaccgggc ggccagacgt ttgcggaacg cacaagcgac tcgcccgtga cccgcaggcc 5100 104 gatggtgtgg gagggagcgg cgccgtgggg cgtctttgca aaccggtgtc agtgccagag 5160 105 togcgaccog cottaattat cagocacatt gotgacaaac gattoatagg atttggccag 5220 106 teccageteg agegaggtet tegggegeea acceategae aegagtettt egetagataa 5280 107 aagctttcgt ggcgttccgt ccggcttgga tgtgtcgaag actatatcgc ctttaaaacc 5340 108 aacaacacgg cagacgatgt gggctagttc aatgatactt atttcccccc cggagcctat 5400 109 gttaatgtgt tccgtttcgg aataatgctt aagtaggaag accagggcgt cggagcagtc 5460 110 ttcactgtac aaaaagtctc gagtaggtgt gccgcttccc catatagaca agcacccaag 5520 111 gtctttaatc tttgcctcat gtgctttgcg tattaaggca gggacgacgt ggctggagtt 5580 112 aagatcgaac ttatcgcgtg ggccatagag atttgtcggc atggctgata tgaagtttgc 5640 113 geogtattge ttacgatacg ettgacacaa ettaatgeeg gegattttgg egategeata 5700 114 ccactcgttg gtcggctcaa gtggtccggt taatagagcc tcttccctta tgggctgcgc 5760 115 cgcatacttc ggatatatgc aactcgatcc aaggaaaaga agcttttcaa cgccactgcg 5820 116 gaaggagccc tcaatgacat tagcctccat gataaggttt tgatagatga agtcagcggg 5880 117 catagtatca tttgccagga tcccacccac cttcgctgcc gccattatga ccgcgtgcgg 5940 118 cttttccttt aataqaaatt tctcaacttc ctcttgccgc gtcagatcaa gcttttgcct 6000 119 atctgcaacg atgacttcgc aatcctcgga ggcaagcgat cgaattatgg cgctgccgac 6060 120 catacctttg tgtcctgcga cccaaatacg ctttccgtct agcaaataca tcggcatctc 6120 121 gcctcttact gtcgggtgcc cctcaaataa gagagatctt cccttaccat ttcgcaagca 6180 122 agatetetea caettgtete gtgeeteeag eecaaaaeet geegggeett ggtggeateg 6240 123 cctaaaagta aatctacttc cgtgggcctg aaatagcgcg gatccaccgc aacgacgcat 6300 124 ctgcctgtcg cggcgtctat gcccctttct tcaatgcctt ctcccaccca ttcaatcgtc 6360 125 attecggttt cetegaagge ceattegaca aacgtgegaa eegatgttgt caeeeeggta 6420 126 gccaggacat agtcgcctgg tctatcctgt tgacacatca tccacatgcc ccgcacatac 6480 127 tcacgggcat gtccccagtc acgttgagca tctagatttc caagataaag gacctcttgt 6540 128 ttacctagac tgattgccgc tgcagcccgg gtgatcttgc gagtcacgaa cgtctcccca 6600 129 cgaagcggac tttcgtggtt gaaaagaata ccgttggagg catgcatgcc gtaagcctct 6660 130 ctataattta cgacaatcca gtacgcgtac agctttgcgg ccgcgtaggg tgaacgcggg 6720 131 tagaatggcg tettttegtt ttgggggete tettgageca geceatatag etetgaagte 6780 132 gatgcctgat aaaagcgagt ccgattggtc agcccaagaa tccgaatagc ttccagcatg 6840 133 cgcaatgtac caattgcatc ggcgtttgca gtgtactcgg gggtttcgaa gcttacctga 6900 134 acgtggcttt gcgctgcaag gttgtagatc tcatgcggct gggtttgctg aacaatgcgc 6960 135 agcaaattgg tcgaatccgt catatcccca tagtggagaa aaaatctcgc ttcaggatcg 7020 136 137 tgacgttctt gataaatgtg ctctatccgt tgagtgttga atgatgacga acgacgcttt 7080 atqccqtqaa caatataqcc ttcqtccaac agcagttcag caagataagc cccatcctga 7140 138 cccgttacgc cagatattaa agctactttc cggtctgtca ctttgtcgaa tctccagtga 7200 139 tattcctgcg ggagagggcg tgcgctaggg cagctggtgt gaaggaaatc gtcgtgcttc 7260 140 ggcgacagag cgggcctatg gaggcattgc ggttttcaaa gcagtattgc cggagacgtg 7320 141 cgggccgggg caactgggca tgaggcgctc gtgtcccttg gagcgcgccc aagtttctcc 7380 142 atgactgctc ttcaccacgc ctagaattga ggtgacgatt ttcattcaag aggcggtatt 7440 143 tgttgaagat ctttcgatca cgaccaggcg actaggatcg ttcagatcaa actcaataac 7500 144 ccttgggaca gaaaggcgtg cgtaacgtgt aaaggcgctt gtcggaggaa accgaatgac 7560 145 ggtgtcgcaa agcccaagaa gatacatctc gacgagggcg gaaattccgc cctcaacccc 7620 146



PATENT APPLICATION: US/09/939,964

DATE: 01/14/2002 TIME: 18:38:07

Input Set : N:\Crf3\RULE60\09939964.raw
Output Set: N:\CRF3\01142002\1939964.raw

1 4 7	asastataaa	atatataata	aaacaaacta	atconctonn	aaacttttcg	ggatcgtgag	7680
147	gagatetgeg	agatactor	agacctggtg	castacccgc	acactatea	tgcacaaaat	7740
148	aagaccgggg	aacctactcy	acacceggee	tttaacaaca	ttaatggcag	tgcacacttg	7800
149	atanagaa	aggtocagat	oggocaacyc	agatacataa	tccataacgt	cttcgccgtt	7860
150	acgeaeggea	aggiceggae	cggcccagta	gygcycacyg	aagtgctcct	gatagatagc	7920
151	accatyccya	acatgaaccc	cyaccycact	attananta	cagaaaatct	gccgctctgc	7980
152	grecargega	geergaatet	toaaacacc	atcacacact	accatattaa	cctcgacatc	8040
153						gagcatctgg	
154	accityggee	cattonator	caccyayete	gccccgcccc	aggaagaata	gtcctgggaa	8160
155	geggtaaaca	ttarageget	tatogoaaat	assaggasca	cctacaatat	ccttgattgg	8220
156	ggaaaacteg	Ligaeceggi	catttatas	aaaayyyaca	aggtaggagg	ccttgattgg	8280
157	ttcaaaaaac	accggaaagg	cgcccgcgaa	gggctgatca	aggrageagg	acccgcgcca	8340
158	gtcaacggct	aacgttcgcg	teattetaa	ggegtagege	tatagattat	ccagcgacca	8100
159	cagacagtca	ccgaaaccag	tacgteteeg	agagaggaca	catcyatty	acaatgctgc	0400
160	ccgtccttag	tgccgccgct	ctgacttact	gtettetacg	gatttccaat	caattcagag	0400
161	cttcctaatg	gagttcggca	acatcagtaa	aatttatatt	ttgaatggca	accatccaca	0520
162	tattggatgt	aaaggggacg	tgtctttcag	ggcttatctt	cacgttaggt	ggcgaaccat	0.000
163						ttgaactgtt	
164						ctgcctcgac	
165	gtagcaacgc	agttcaggcg	catttcctga	agggcggatg	tgcaggatac	ggccgccttc	8760
166	aaatgtcagg	cgcaggccat	ccacgtcgtc	cgtgcccgcc	acgcgaccga	tccggctgaa	8820
167	taaatgggaa	acattagctt	ttgacgcttt	caagaatgcc	actagggcgt	cgctcctatc	8880
168	gaacggatag	ttctcgatcc	ggccggacaa	agcgactggc	aaacgatgca	tcgcgacgat	8940
169	ccccgagagg	ggagttttgg	cctctactgc	catgtggagc	gctgcaatga	tgggaaggac	9000
170	gcagtcccgg	gtcggcaagg	cgggaagcga	cgcgcctccg	aacgagaagt	tcgaacctag	9060
171	catgacgcca	ccgttggcct	cgaagcccat	cacccgctgc	ttgccacggg	caaccgcctc	9120
172	agtcatggct	gcaatgacgt	aaggtgagcc	aacgcgggta	cgcaccacct	cgacgccact	9180
173	cgccgcctcg	atcccggagt	tgctggttat	tggcgtagca	ataagcttgg	cctccagcag	9240
174	ccttgcgcaa	ataagaccga	gcagatcacc	gcgcaatgga	gttcccgttt	catccgttag	9300
175	caggggccga	teggeatetg	cgtcggacga	tacaatggcg	tcaaaggcga	actccttcgc	9360
176	ccaggcagcg	agcatcttac	atgtcgccgc	cgaaatagct	tccgtgtcaa	cagggatgaa	9420
177	gacctcagat	cggcctaccg	gtacgacatt	tgcgccatga	ccttccaaga	tggtggtcaa	9480
178	aatatcgcgg	gcaacgctgc	tgtgctgata	taagccgatc	tttagcccct	taaggcccga	9540
179						tggagtggtc	
180						gctccgccaa	
181						agaacttaat	
182	accatttcaa	toggooggaa	tatqcqaqcc	tgtgatcatg	agtgatgctg	caccgagttt	9780
183	teggeegtae	aatqcaaqcq	ctggtgtcgg	cagccctccg	cagtcgaccg	gcaccattcc	9840
184	cacccaaaca	agegeegeea	tgcagatagc	ggcgatttcc	gaacttgaat	cgcggaagtc	9900
185	gcgaccgacc	aatacggtcg	cccctqqcqc	gacccgtcct	ctgtcgagga	gcatcctcga	9960
186	aaaggctgta	gcatagagcg	ccgacacact	acccacqaqt	tctqttqcca	acccgcgcag	10020
187	accacttgtg	ccgaatttgg	gacccattaa	ctagectttt	tttgccgggc	agcgttcagc	10080
188	aggtagtcga	caccaccada	gcaagccgaa	tgaattcgca	tccactaatq	agattgcttc	10140
189	getetegeea	cactgttatg	aagcttccat	caaacqcaat	caaaaatqac	accatgette	10200
190	caaagattat	cccagctate	atggcagggg	gtaggggcac	aaggetetag	cctctgtcac	10260
191	gcgcaactgc	cgcaaaacag	tttctaaagc	taatcggcga	ggaaacgctc	tttcaagaca	10320
192	cacttaaaca	cgtttccgat	gccaaagttt	atggaggagg	actcatcatc	acaaatgagg	10380
193	aatttcgctt	cctaattacc	gaacaggggg	gcgagctcgg	ggtcacgctt	tccagcatag	10440
194	tacttgagee	aataccacac	aacacggcag	ccgcagtage	catcaccacc	cggatcgtgg	10500
195	ctgatcggtt	taataaaaac	gcgctattgc	ttatactacc	gtcggaccac	gcgattacgg	10560
400	Juguetyytt	-yy cyuyyuc	20200000		, , ,	,-,	

RAW SEQUENCE LISTING DATE: 01/14/2002 PATENT APPLICATION: US/09/939,964 TIME: 18:38:07

Input Set : N:\Crf3\RULE60\09939964.raw
Output Set: N:\CRF3\01142002\1939964.raw

tagacgatac ttacaagaaa tgcgtgcgct ccgcctgcat cgccgcagcg gagggcaagc 10620 196 tcgtgacgtt cggtattcaa cccacttggc cagcaacagg atacggatac atcgaacgtg 10680 197 gcacttacct tggcaaggac gtccatgcgg ttcaatgttt tgtcgagaaa ccaagtctcg 10740 198 aaaaggcggc ggctcttttg gagaccggca attactattg gaactctggg atgttccttt 10800 199 tccaggcggc cagcattatc gccgaacttg aggaacatgc acccgacgtg ttgtcggcgg 10860 200 tqcacqccqc ggtcaggggc tcaacggtcg acgccgattt tatacgactt gccccggaga 10920 201 gtttcagcca agcgccatcc atctcgatcg actatgcact gatggagaaa accgcaaacg 10980 202 ccgccgtggt ctgctcggat tttgcttggt cggatctcgg tagttgggat gctgtatgga 11040 203 agaatgagga gcagaatgct gatggtaacg tgctcaaggg caatgttacg gcctgcaaca 11100 204 cqaaqaattc gcttgtgttg tcgcataccg cgcatctcgc tgtacagggg atggatggag 11160 205 ttgcagtcat cgctagcgag gacgcagtct tcgtcgggcg actggaggag gcccatgaga 11220 206 teggaaactt ggtgaagege etegeegegg aegaaaatae ggeaegtett aeggaattge 11280 207 acccaacttt gatacggcca tggggcggct acaccactat gcttaacggc gatcgcttcc 11340 208 aagtaaggcg gttgttcgta cgccctggga agatgctttc tctccacaag cattttcatc 11400 209 gatcagagca ctggatctgc gtgaagggca ccgcagaagt gacaatcgag gatcgagtaa 11460 210 cgatcctgca cgagaaccag tcaatctaca tccccgaggg ggcgatacat cgcttgggca 11520 211 accetggcaa gateatgetg gagttggteg agatteaaac tggtgeetae etgggegagg 11580 212 213 geceataggg atagegtgee etttgegeag teeggeacet tegeaegeat taeggtatet 11700 214 ggagcgagga cgtggtggca ccatcggcaa gcgttgcacc ggcggccgcg gacgggtctg 11760 215 acquicatqcq atqqataccq ccctctgcgt cgacacgatc gtagatgcgt gttctcctcc 11820 216 gtgggcccgg cacgatcgtt ctcctgcgca acgcatacct cgcgacgagg taggccgaaa 11880 217 aatccggctt tcttcgcgcg cagcatttcg agacgacctt tctcgacggg cagatcgccc 11940 218 ggcgtctgcg acccgtccgg cttcttttc tttgagcggt ttctcgcagc agcaccgctt 12000 219 qcacqcqqct ccattccgqc tttttttacc gacagatcag ctatgcgctt gaagcgctgc 12060 220 ttgccgtccc gtctggcgga aggcccgcga ggaacggcga aaaggcggcg ccgaagcccc 12120 221 tgcattgtta gtggcaaggc tgttgcggtg ggcgttgacg gtttcgctcc ggctcgatcc 12180 222 ctacggtcga aaagacgaaa tggcaggagc ggtcggccgt tttgccacaa agcctgttct 12240 223 tcaqqaqqcq catqcaagaq ggcgggcgac ggcatgaagc cgtgaatgca cttgacttca 12300 224 gattaattaa gcgttttcta acgatttgca taattgatcg ttcggatgac aaccatccgc 12360 225 actqtqqatt cgccaqaaca tgcgttttaa gggccttgat ctcaatctcc tcgttgcgct 12420 226 cgacgcactg atgaccgaac gcaaactcac ggccgctgca cgcagcatca acctgagcca 12480 227 qccqqcqatq agcgcagcca tcacccggct tcggacctat ttccgcgacg agctatttac 12540 228 catgaatggt cgcgaacttg taccaactcc gcgagcagaa gcgctcgcac ccgcagtccg 12600 229 cqaaqccctq ctgcacatcc atctctccat catttcatgg gatccgttca acccagcgca 12660 230 gtcagatcgc agtttcagga tcattctttc cgacttcatg acgctaatgt ttcttgaaag 12720 231 ggttgtggtg agagtggcgc gggaagcgcc cgccgtcagt ttcgagttgc tgccgttttc 12780 232 cgatgagcca gatgagcttc tccggcgtgg tgatgtcgat ttcctgatcc tgccagaaat 12840 233 gttcatgtcg cacacgcatc ccagagcgaa gctgttcgat gagagattcg tgtgcgtgag 12900 234 ctgcccaacg aaccagaagc taccgccgca gctctccatc gacaactatg tatcaatggg 12960 235 gcatgttgcg gcccaattcg ggaagcagcg gccttccgtg gaggaatggc tattgcgcga 13020 236 gcacggattg cgaagacggg tcgaagtcgc cgtgccgggt tttaccatga tcccgtcttt 13080 237 tttgtcgggc actgaccgca tagcgaccct cccgttacga ctggcgatgc acttcgcaaa 13140 238 agccattccc ctgcggatca ccgaacttcc gcaacccatt tttcccgcgt tcaccgaggc 13200 239 tgtccagtgg cccgcgcctc acagcagtga tccggccagt ctctggatgc gcgagatatt 13260 240 totacaggag gogtotoggg ttgaatttca atoogaaact toggogcatg ctotatotaa 13320 241 agecgaegge geaattegee accettgage eegcaactge aeggtegget eagggtegag 13380 242 cagtttggct gcaggttgcg gcctaccaga ggggctcgca cggcccgagc gtaccgcatg 13440 243 ccacactccg accattttcg gcctatgcgc agcattagct cttcagcttc agcagccggg 13500 244

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/939,964

DATE: 01/14/2002 TIME: 18:38:08

Input Set : N:\Crf3\RULE60\09939964.raw
Output Set: N:\CRF3\01142002\I939964.raw